

Small Generator Interconnection Application for Generation up to and including 2 MW

An Applicant that will participate in a FERC regulated market including the wholesale market, or sell power, or who is requesting interconnection to a FERC regulated transmission facility, must submit an Application by hand delivery, mail, e-mail or telefax to the Interconnection Provider as far as possible in advance of the month in which service is to commence as follows:

Interconnection Provider: _____
Interconnection Provider's Designated Contact Person: _____
Interconnection Provider's Address: _____

Interconnection Provider's Telefax Number: _____
Interconnection Provider's E-Mail Address: _____

An application is a Complete Application when it provides all applicable and correct information required below. (Additional information to evaluate a request for Interconnection may be required pursuant to the application process after the application is deemed complete.)

Section 1. Applicant Information

Legal Name of Interconnecting Applicant (or, if an Individual, Individual's Name)

Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Facility Location (if different from above): _____

Telephone (Daytime): Area Code ____ Number _____ (Evening) Area Code ____ Number _____

Facsimile Number: _____

E-Mail Address: _____

Alternative Contact Information (if different from Applicant)

Contact Name: _____

Contact Title: _____

Address: _____

Phone Number: _____

Facsimile Number: _____

E-mail address: _____

(If required by applicable market rules) FERC Approval of Interconnection Applicant's rate schedule for Wholesale Electric Power and Energy Transaction as a Marketer:

FERC Docket No. _____ Application Pending:

For generators installed at locations with existing electric service to which the proposed generator will interconnect, provide:

_____ (Local Electric Service Provider*)

_____ (Existing Account Number*)

(*To be provided by Applicant if Local Electric Service Provider is different than Interconnection Provider)

Contact Name:

Contact Title:

Address: _____

Phone Number: _____

Facsimile Number (if known): _____

E-mail address (if known): _____

Requested Point of Interconnection: _____

Name of nearest substation: _____

Name of transmission/distribution line: _____

Voltage of line: _____

Interconnection Applicant's requested in-service date for commercial operation:

Interconnection Applicant's requested in-service date for backfeed: _____

Section 2. Generator Qualifications

*All data collected in Sections 2, 3, and 4 are applicable only to the generator facility,
NOT the necessary interconnection facilities*

Energy source: Solar _____ Wind _____ Hydro _____ Hydro Type (e.g. Run-of-River) _____
_____ Diesel _____ Natural Gas _____ Fuel Oil _____ Other _____ (state type)

Type of Generator: _____ Synchronous _____ Induction _____ DC Generator or Solar with Inverter

Generator Nameplate Rating: _____ kW (Typical)

Generator Nameplate KVAR:

Applicant or Customer-Site Load: _____ kW (if none so state) (Typical); _____ (Reactive Load, if known)

Maximum Physical Export Capability Requested: _____ kW

List components of the Generating Facility that are currently certified and are listed on the FERC designated website for the National Registry of certified equipment:

Equipment Type	Registry Listing Number
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____

Section 3. Generator Technical Information

(Provide for each generating unit to be interconnected to Interconnection Provider's Electric System. Add additional sheets as necessary.)

Generator (or solar collector) Manufacturer, Model Name & Number: _____

Version Number: _____

Nameplate Output Power Rating in kW (Summer) _____ (Winter) _____ (Indicate net or gross value, and ambient temperature.)

Nameplate Output Power Rating in kVA: (Summer) _____ (Winter) _____ (Indicate net or gross value, and ambient temperature.)

Individual Generator Power Factor

Rated Power Factor Leading: _____

Rated Power Factor Lagging: _____

Total Number of Generators in Wind Farm to be interconnected pursuant to this application:

Elevation: _____ Single phase _____ Three phase

Inverter Manufacturer, Model Name & Number (if used): _____

List of Adjustable Setpoints for the protective equipment or software: _____

Generator Characteristic Data (for rotating machines):

For Wind Generators, a completed General Electric Company Power Systems Load Flow (PSLF) data sheet must be supplied with the application.

For Synchronous and Induction Generators:

Direct Axis Transient Reactance, X'_d : _____ P.U

Direct Axis Unsaturated Transient Reactance, X'_{di} : _____ P.U

Direct Axis Subtransient Reactance, X''_d : _____ P.U

Generator Saturation Constant (1.0): _____

Generation Saturation Constant (1.2): _____

Negative Sequence Reactance: _____ P.U.

Zero Sequence Reactance: _____ P.U.

KVA Base: _____

RPM Frequency: _____

Additional information for Induction Generators:

*Field Volts _____

*Field Ampers _____

- *Motoring Power (kW) _____
- *Neutral Grounding Resistor (If Applicable) _____
- * I_2^2t or K (Heating Time Constant) _____
- *Rotor Resistance _____
- *Stator Resistance _____
- *Stator Reactance _____
- *Rotor Reactance _____
- *Magnetizing Reactance _____
- *Short Circuit Reactance _____
- *Exciting Current _____
- *Temp. Rise _____
- *Frame Size _____
- *Design Letter _____
- *Reactive Power Required In Vars (No Load) _____
- *Reactive Power Required In Vars (Full Load) _____
- *Total Rotating Inertia, H: _____ Per Unit on KVA Base

- **Note: Please contact Interconnection Provider prior to submitting the Application, to determine if the specified information above is required.**

Excitation & Governor System Data for Synchronous Generators only

Provide appropriate IEEE model block diagram of excitation system, governor system and power system stabilizer (PSS) in accordance with the regional reliability council criteria. A PSS may be determined to be required by applicable studies. A copy of the manufacturer's block diagram may not be substituted.

Section 4. Interconnecting Equipment Technical Data Information

Will a transformer be used between the generator and the point of interconnection? ___ Yes ___ No
 Will the transformer be provided by Interconnection Applicant? ___ Yes ___ No

Transformer Data (if applicable, for Interconnection Applicant-Owned Transformer):

Is the transformer: ___ single phase; ___ three phase?

Size: ___ KVA

Transformer Impedance: ___ % on ___ KVA Base

If Three Phase:

Transformer Primary: ___ Volts ___ Delta ___ Wye ___ Wye Grounded

Transformer Secondary: ___ Volts ___ Delta ___ Wye ___ Wye Grounded

Transformer Fuse Data (if applicable, for Interconnection Applicant-Owned Fuse):

(Attach copy of fuse manufacturer's Minimum Melt & Total Clearing Time-Current Curves)

Manufacturer: _____ Type: _____ Size: _____ Speed: _____

Interconnecting Circuit Breaker (if applicable):

Manufacturer: _____ Type: _____ Load Rating: _____ Interrupting Rating: _____ Trip Speed: _____
 (Amps) (Amps) (Cycles)

Interconnection Protective Relays (if applicable):

(Enclose copy of any proposed Time-Overcurrent Coordination Curves)

Manufacturer: _____	Type: _____	Style/Catalog No.: _____	Proposed Setting: _____
Manufacturer: _____	Type: _____	Style/Catalog No.: _____	Proposed Setting: _____
Manufacturer: _____	Type: _____	Style/Catalog No.: _____	Proposed Setting: _____
Manufacturer: _____	Type: _____	Style/Catalog No.: _____	Proposed Setting: _____
Manufacturer: _____	Type: _____	Style/Catalog No.: _____	Proposed Setting: _____

Current Transformer Data (if applicable):

(Enclose copy of Manufacturer's Excitation & Ratio Correction Curves)

Manufacturer: _____	Type: _____	Accuracy Class: _____	Proposed Ratio Connection: _____/5
Manufacturer: _____	Type: _____	Accuracy Class: _____	Proposed Ratio Connection: _____/5

Potential Transformer Data (if applicable):

Manufacturer: _____	Type: _____	Accuracy Class: _____	Proposed Ratio Connection: _____/5
Manufacturer: _____	Type: _____	Accuracy Class: _____	Proposed Ratio Connection: _____/5

Section 5. General Technical Information

Enclose copy of site electrical One-Line Diagram showing the configuration of all generating facility equipment, current and potential circuits, and protection and control schemes.

Is One-Line Diagram Enclosed? _____ Yes

This one-line diagram must be signed and stamped by a licensed Professional Engineer if the generating facility is larger than 50 kW.

Enclose copy of any site documentation that indicates the precise physical location of the proposed generating facility (e.g., USGS topographic map or other diagram or documentation).

Proposed Location of Protective Interface Equipment on Property:
(Include Address if Different from Application Address)

Enclose copy of any site documentation that describes and details the operation of the protection and control schemes. Is Any Available Documentation Enclosed? _____ Yes

Enclose copies of schematic drawings for all protection and control circuits, relay current circuits, relay potential circuits, and alarm/monitoring circuits (if applicable).

Are Schematic Drawings Enclosed? _____ Yes

Section 6. Applicant Signature

I hereby certify that, to the best of my knowledge, all the information provided in the Interconnection Application is true and correct.

Signature of Applicant: _____ Date: _____